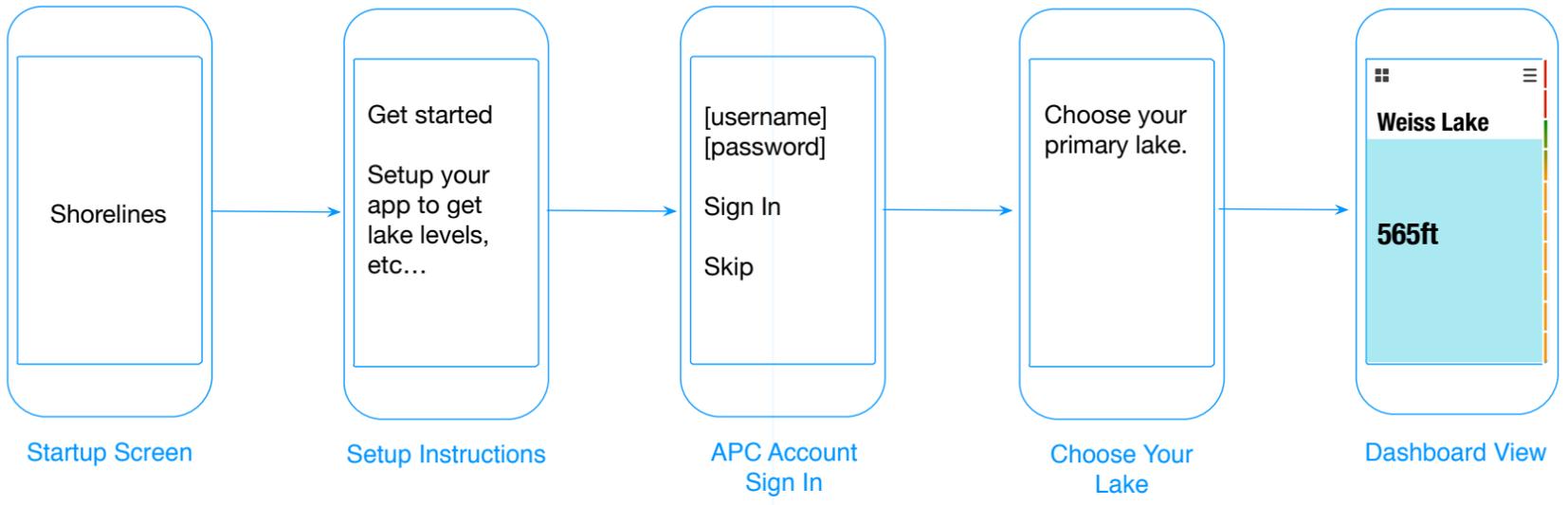


Initial Application Setup Flow (First Run Only)



How it works:

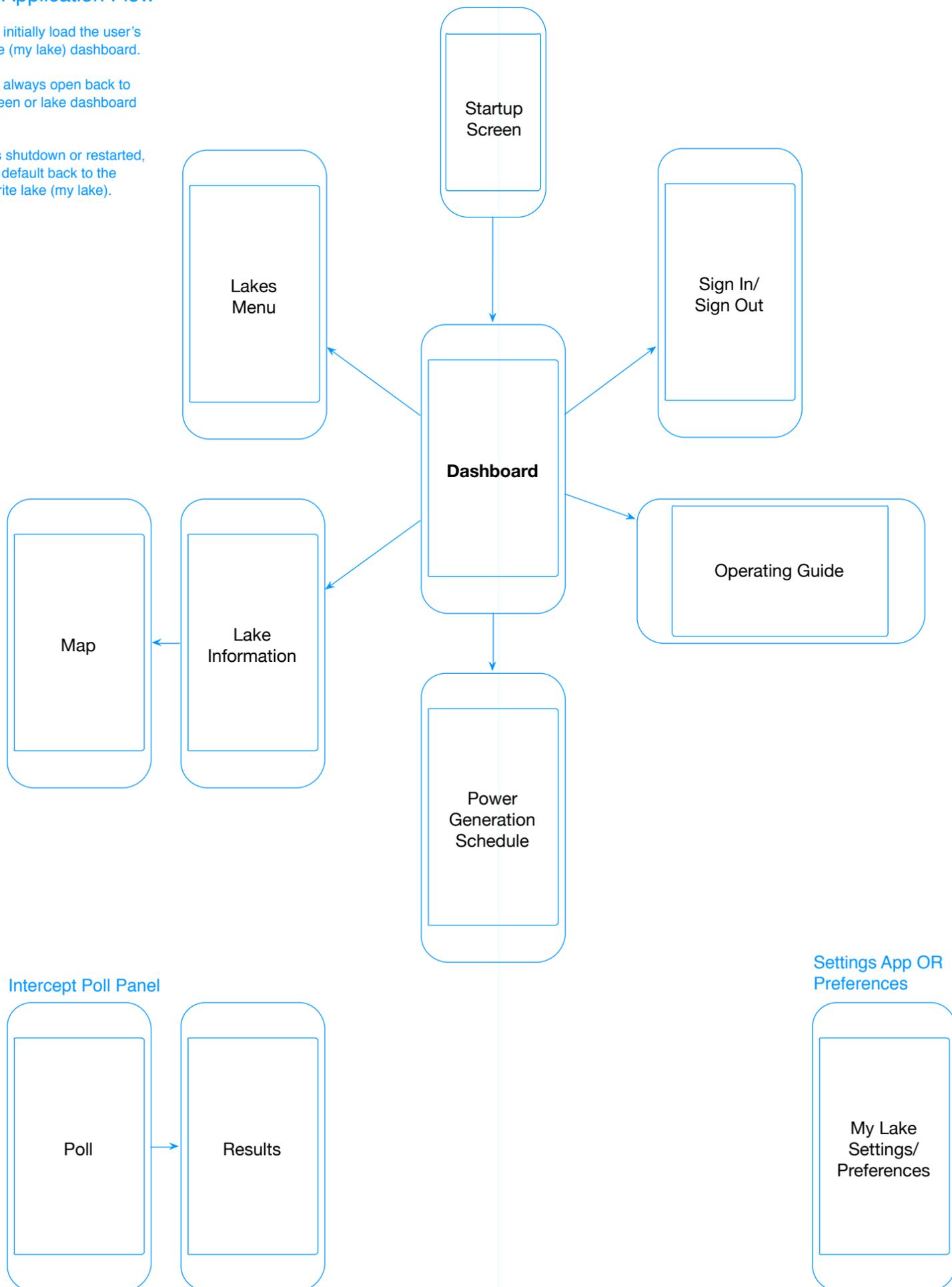
On first launch, the app asks the user to set it up. A user is prompted to sign in to their APC account, but they may opt to skip this step. Next the user chooses their primary lake, the favorite lake they app will default to. The user may always sign in later in the Settings view or link to registration.

Normal Application Flow

App should initially load the user's favorite lake (my lake) dashboard.

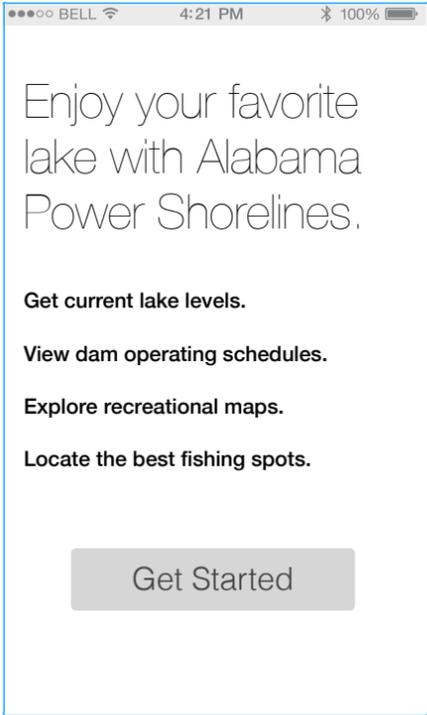
App should always open back to the last screen or lake dashboard viewed.

If the app is shutdown or restarted, app should default back to the user's favorite lake (my lake).

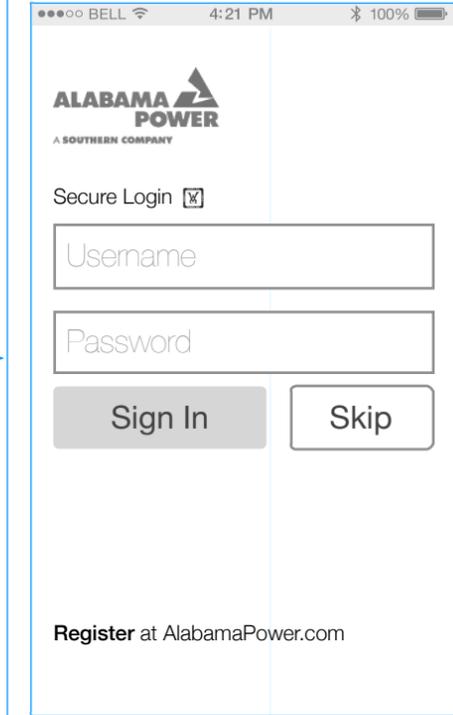


Initial Application Setup (First Run Only)

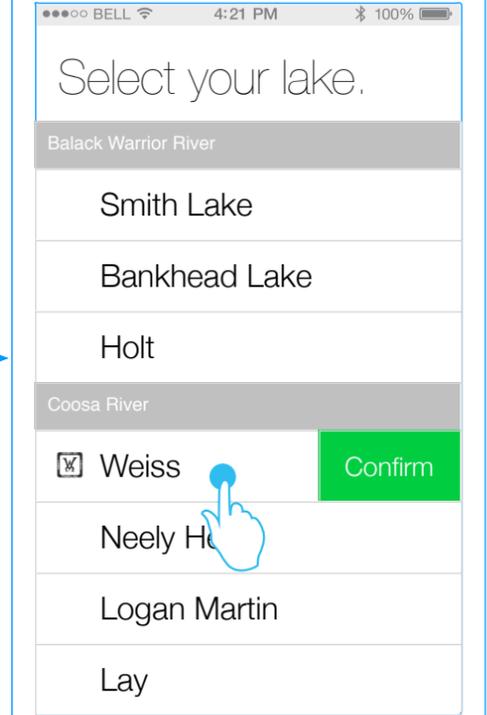
1. Instructions



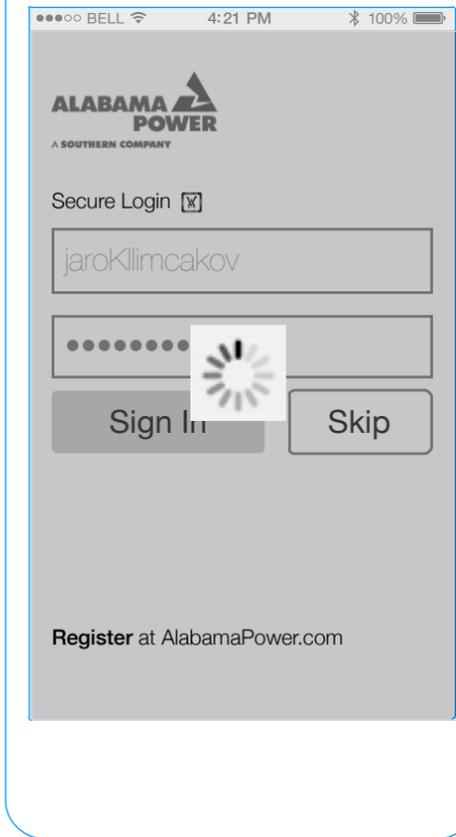
2. APC Sign In



3. Select Your Lake

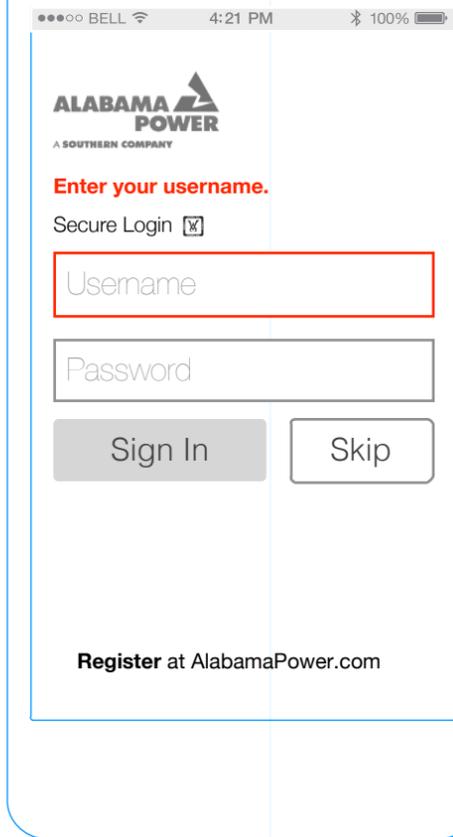


Progress Indicator



Progress Indicator
Progress indicator displays while attempting to sign in. If unsuccessful display errors. Else display the Select Your Lake screen.

Error Messaging



IF nothing or password only is entered:
Reset form
Highlight username field.
Display: "Enter your username."

IF username, but no password:
Highlight password field.
Display: "Enter your password."

IF incorrect username or password:
Reset password field.
Highlight password field.
Display: "The username or password you entered is incorrect."

IF no network connection exists:
Display an alert dialogue:
Title:
"Network Error"
Message:
"The Internet connection appears to be offline."
Cancel Button:
"OK"



Note: User may still continue by tapping Skip.

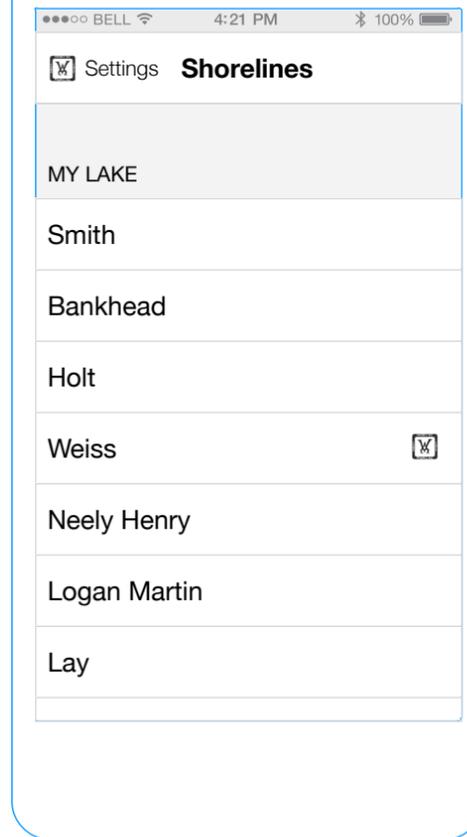
UI notes:

1. User taps selection in "selection list".
2. Checkmark marks selection.
3. Confirmation button slides in from left.
3. Tapping confirmation sets the lake and continues to dashboard view.
4. Tapping a different lake, deselects current choice and marks the new choice and a confirmation dialogue appears.

Lake is set as "my lake". User may update this setting in the Settings app.

If the app is restarted, "my lake" dashboard is displayed. Else, the last lake viewed is always displayed.

iOS Settings App

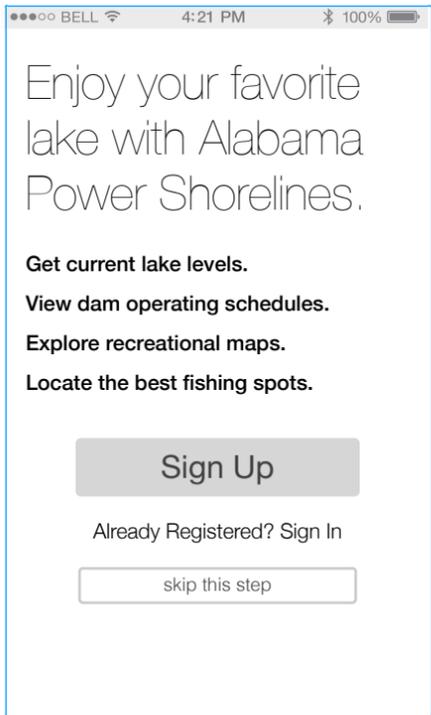


Initial Application Setup (First Run Only)



Initial Application Setup (First Run Only)

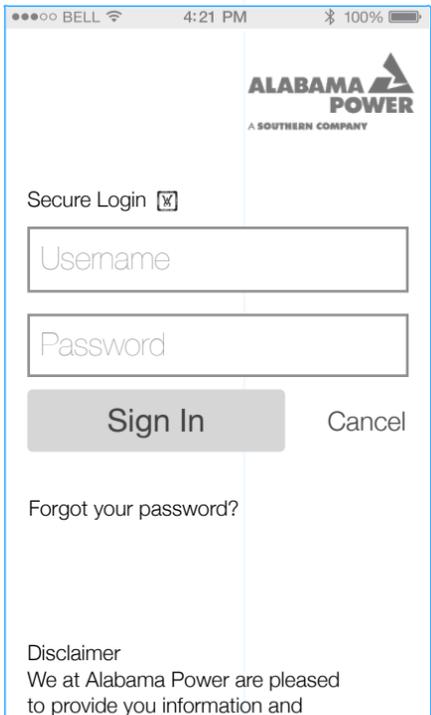
1. Instructions



UI notes:

Sign up button goes to 2. Sign In
 Already Registered goes to 4. Sign Up
 Skip this step goes to 3. Select Your Lake

2. Sign In

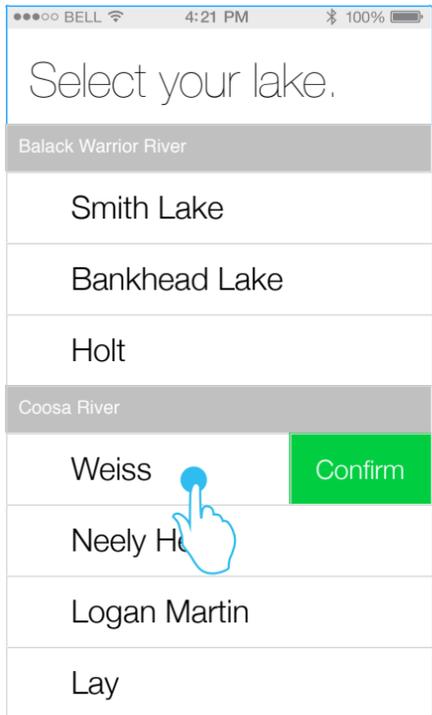


UI notes:

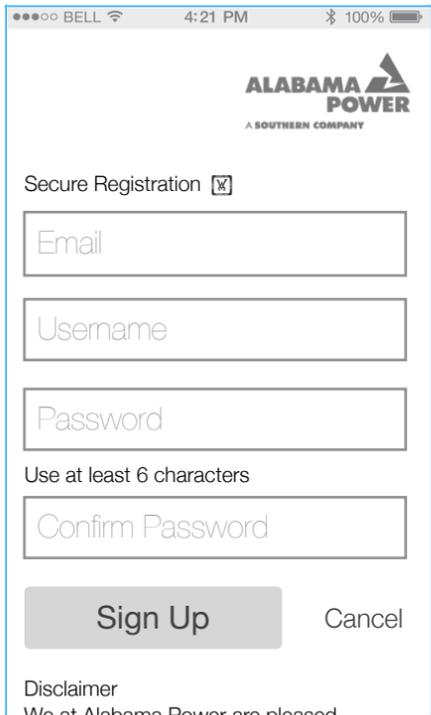
Sign In button goes to 3. Select Your Lake
 Forgot your password goes to 5. Forgot Password
 Cancel returns to 1. Instructions

Error and Loading states shown in previous documentation

3. Select Your Lake



4. Sign Up



UI notes:

Sign up button goes to 3. Select Your Lake
 Cancel returns to 1. Instructions

Error and Loading states shown in previous documentation

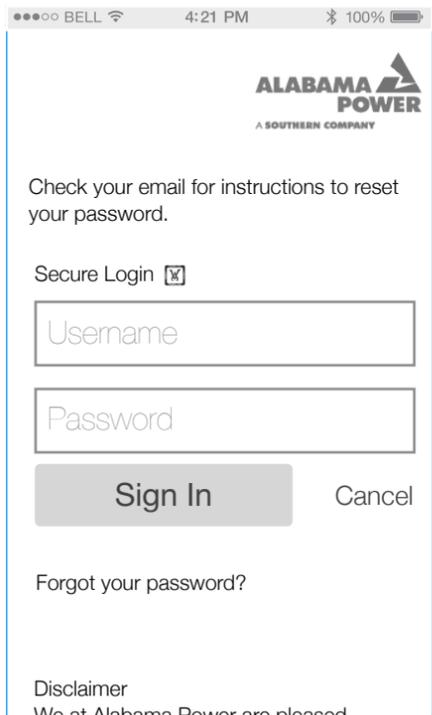
5. Forgot Password



UI notes:

Reset Password button goes to 6. Check Email
 Cancel button returns to 2. Sign In

6. Check Email



UI notes:

Same sign in form with addition of "check email" information

Lake Level Gauge



Operating Guide

Only elevations within the reservoir's operating guide are marked on the gauge.

Navigability

The most optimal elevation range for navigation is displayed in green (elevations within 12 inches of "full pool"). Lower levels are displayed in yellow to suggest to a boater to use caution when navigating the lake.

Flood Control

Flood control elevations are displayed in red suggesting this level is not safe or optimal.

How to Read The Level

The entire screen is used to display the water level. The gauge is customized for each reservoir's operating guide.

To read the gauge, simply look at the changing water. In the summer the screen may be "filled up" with water, while in the winter the screen will typically be "empty".

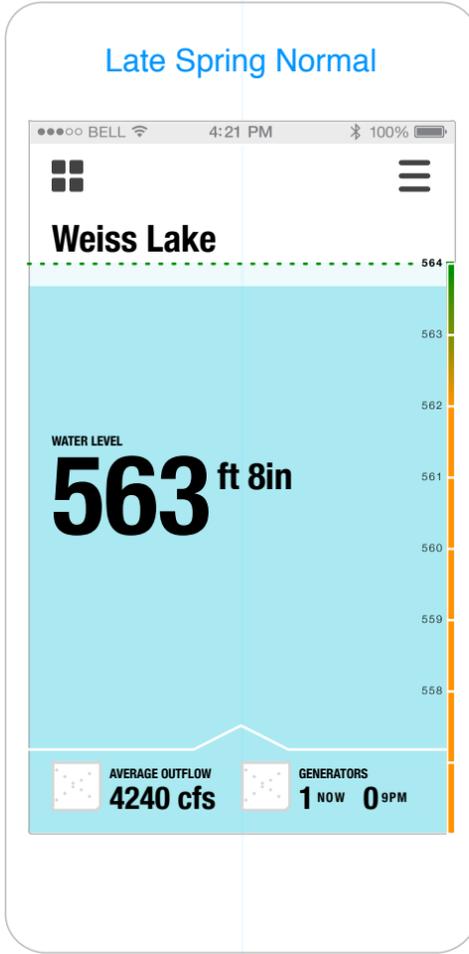
This visual display of the data aligns with the user's understanding that the water levels move up and down over time. Because of that, it's simple to understand.

Power Generation & Dam Outflow

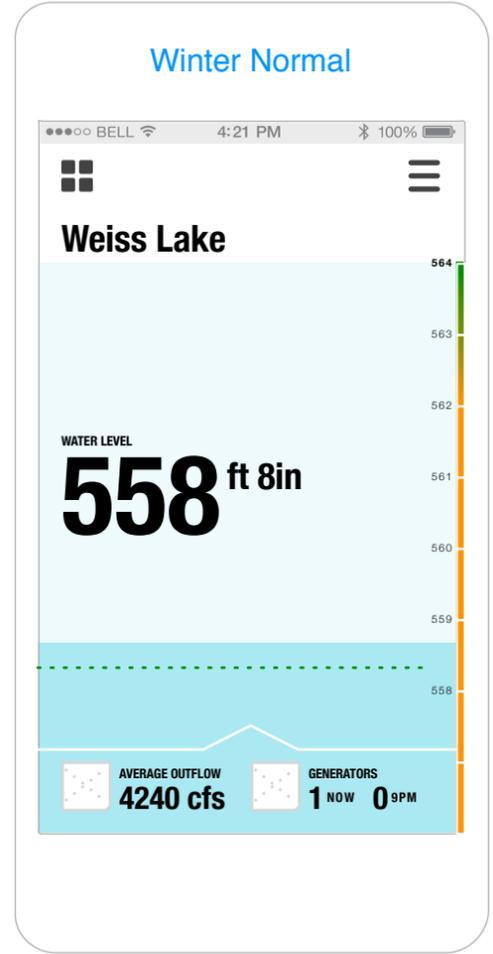
The current average outflow for the hour is displayed in cubic feet per second along with the current number of generators operating. Also shown is the number of generators scheduled for the next hour.

Tapping the power generation display will open a panel displaying a schedule for the next 3 days. (shown in detail on page 10)

Late Spring Normal



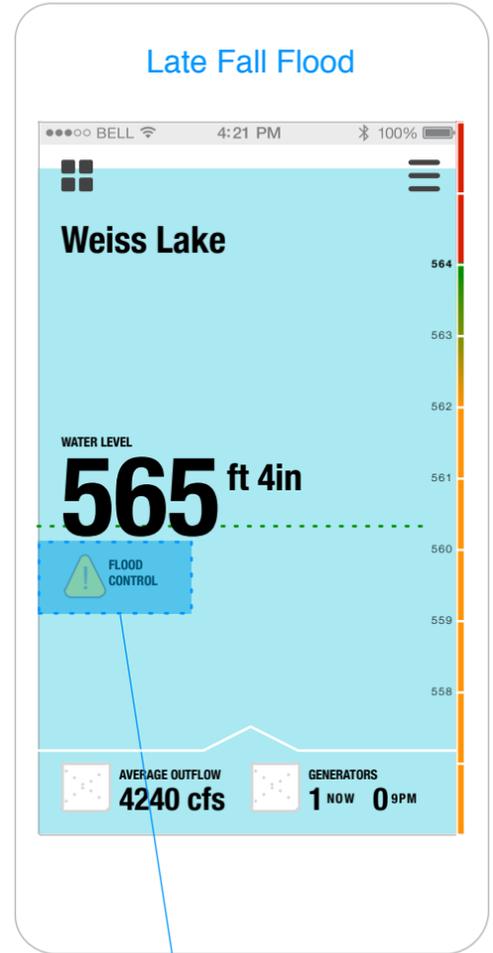
Winter Normal



Summer Drought



Late Fall Flood



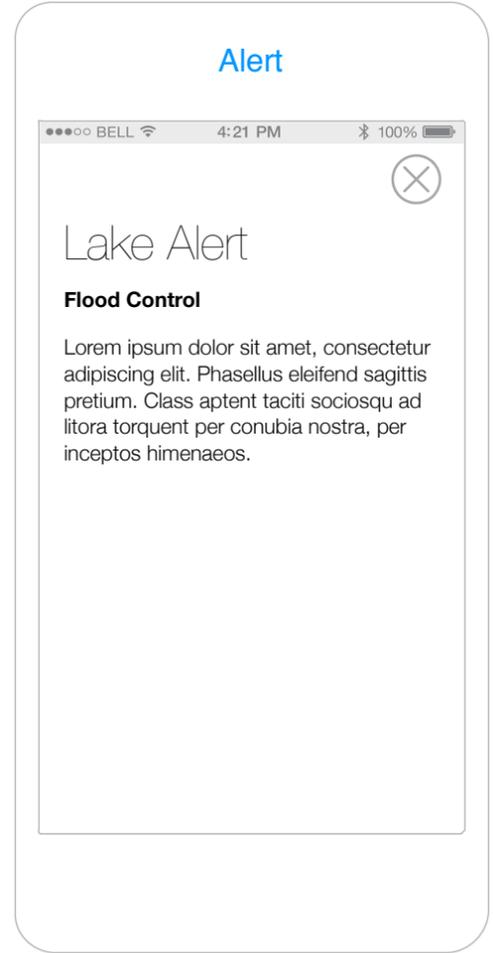
Alert Messages

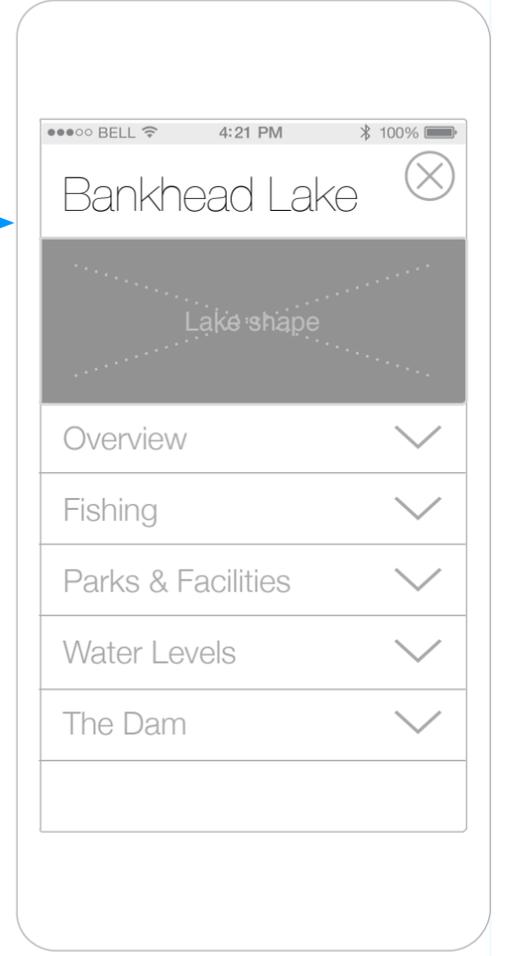
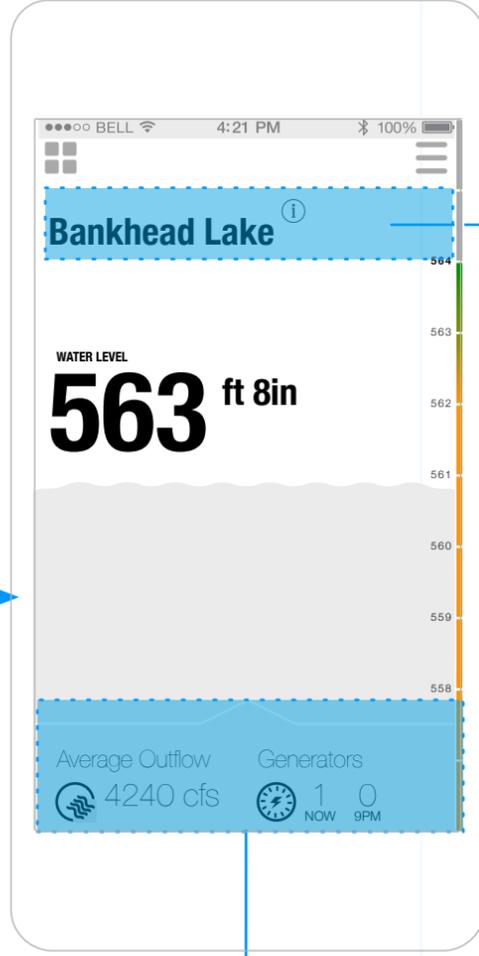
When special conditions occur, alert messages will be displayed to explain why the water level is higher or lower than the operating guide. Tapping an alert message opens a panel with a longer message explaining the alert.

Transition Note

Lake Alert should use the scale transition when opened and reverse scale when closed

Alert

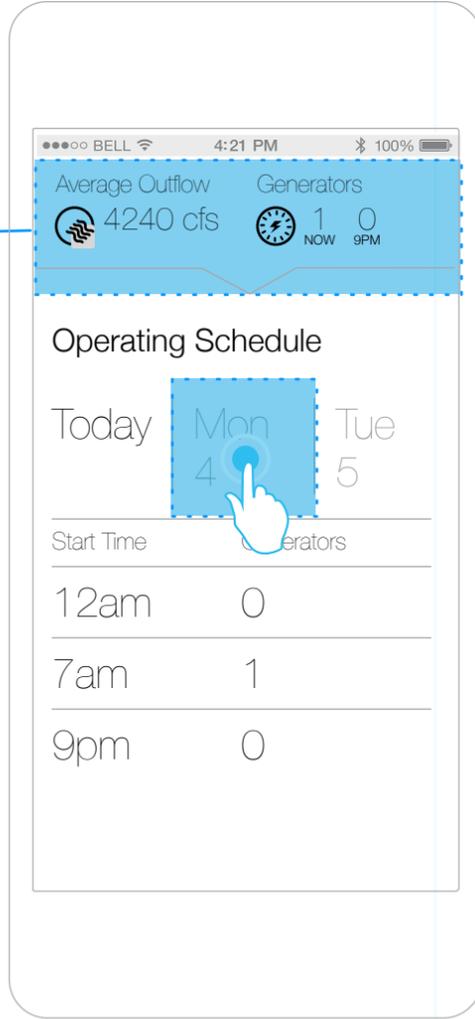




Transition Note
Open by expanding from middle (scale up)
Close by scaling from outer edge. (scale down)

Transition Note
Tap or drag up to open panel. Operating Schedule panel slides up.

Transition Note
Tap or drag down to close panel. Operating Schedule panel hides by sliding down.



Three days of data will be available. Each date is a tab button that slides the schedule below into place. Selecting a date further into the future that the current view would slide the panel left. Selecting a date before the current view would slide the panel right.

Schedule may be longer than screen, if so, the scrolling panel should be everything below the Generators panel.

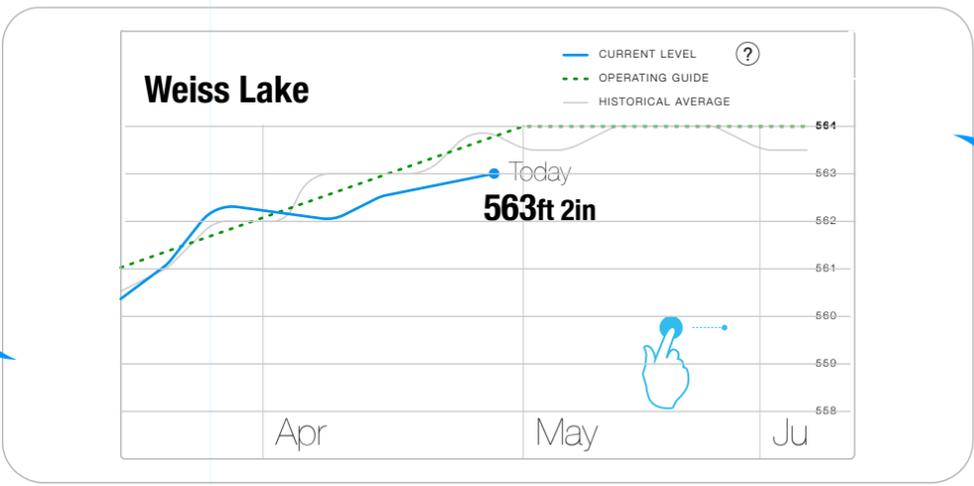
Viewing the Operating Guide

Turning the device to a landscape orientation will display the operating guide and historical elevations from January 1st through today.

The *current level* shows today's elevation back to January 1st of the current year.

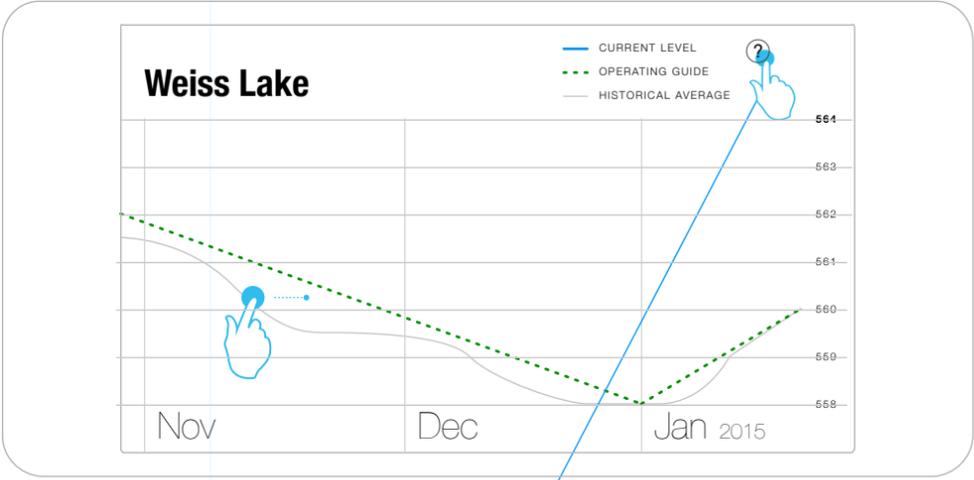
The *operating guide* shows the operating guide for the reservoir.

The *historical average* shows average elevations from 1965 to present.



Future and Past Levels

Swiping the screen to the left will display future operating guide and historical averages for the next 12 months. Swiping to the right will display past data up to January 1st.



Explanation

Tapping the info icon will display an explanation of the operating guide and historical data.

Understanding Lake Levels ⊗

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus eleifend sagittis pretium. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Nulla lorem lectus, posuere ut convallis sed, gravida sit amet erat. In sed odio odio, vitae iaculis massa.

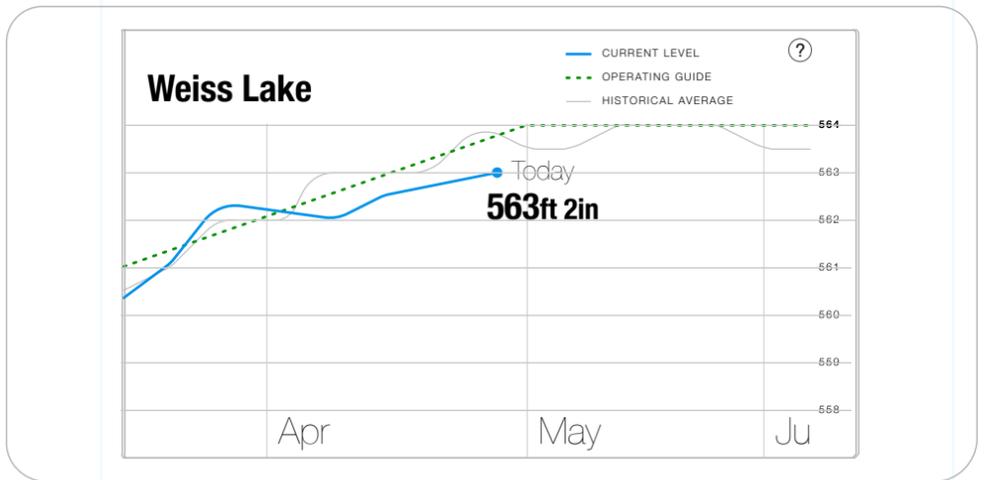
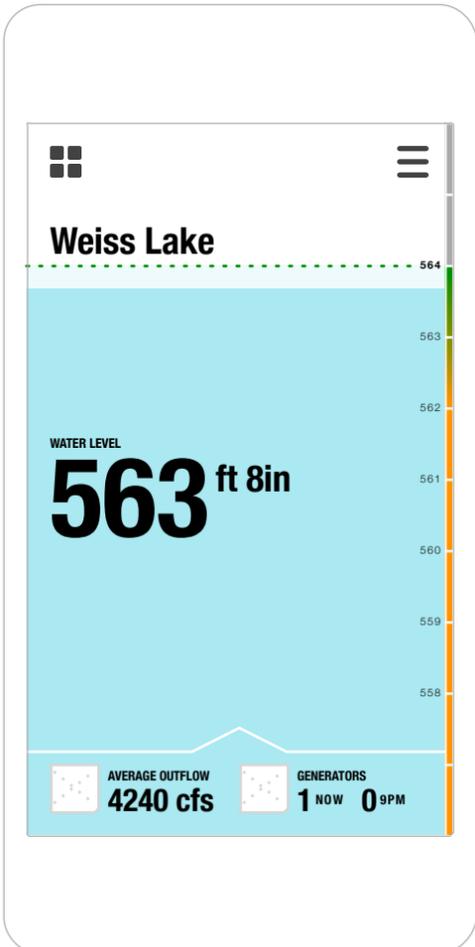
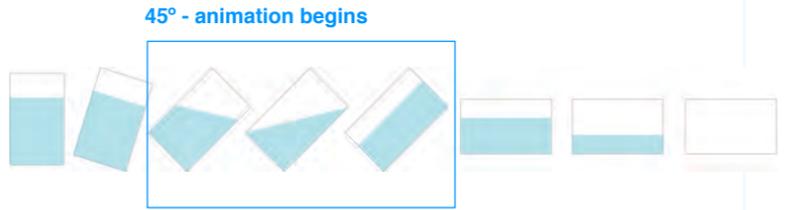
Operating Guide

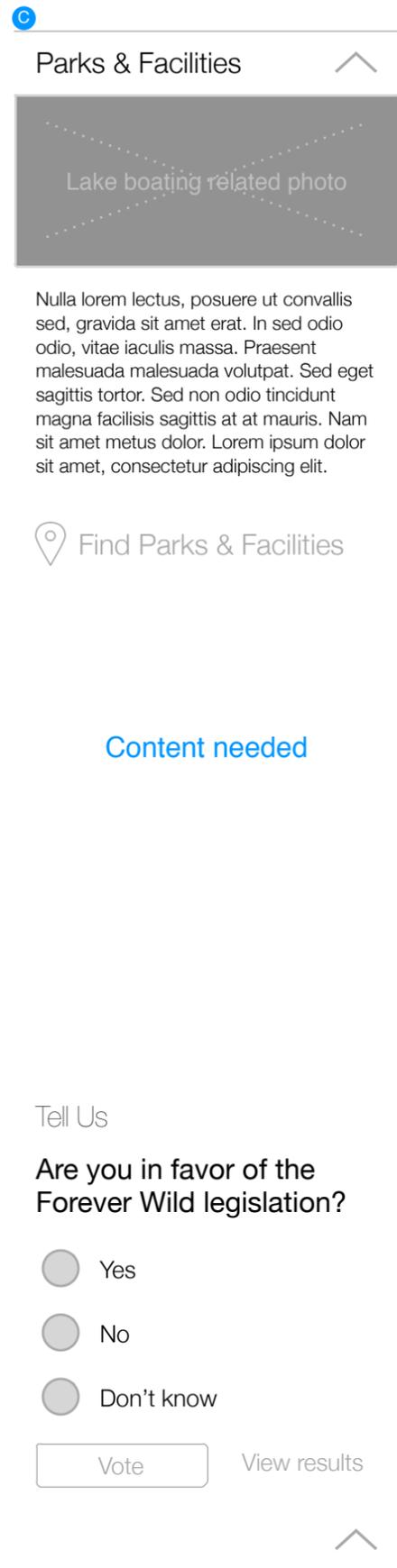
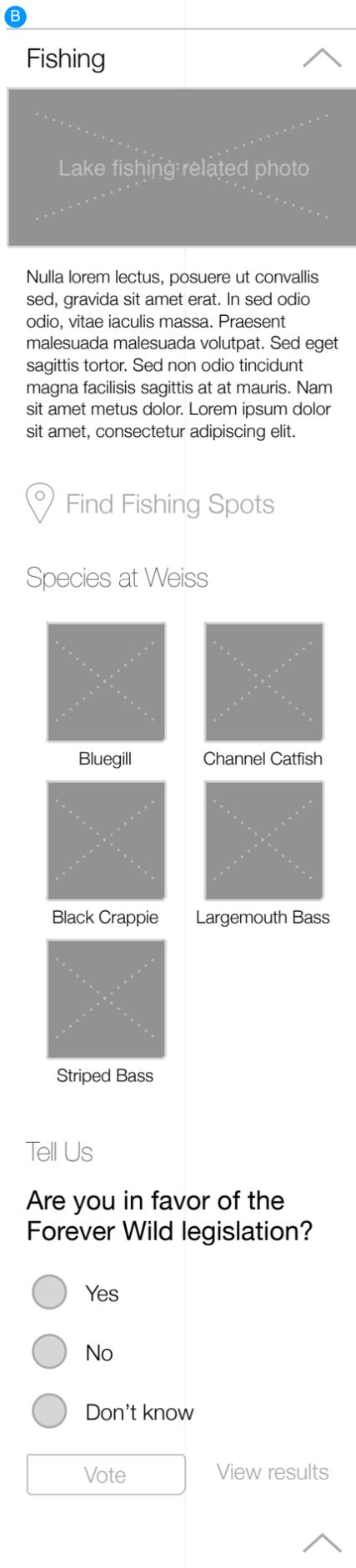
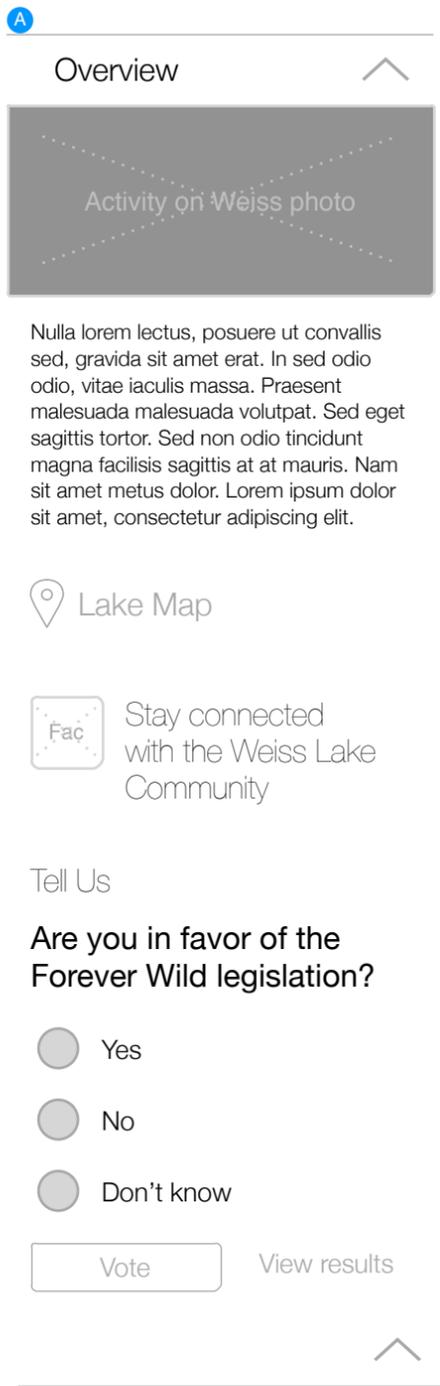
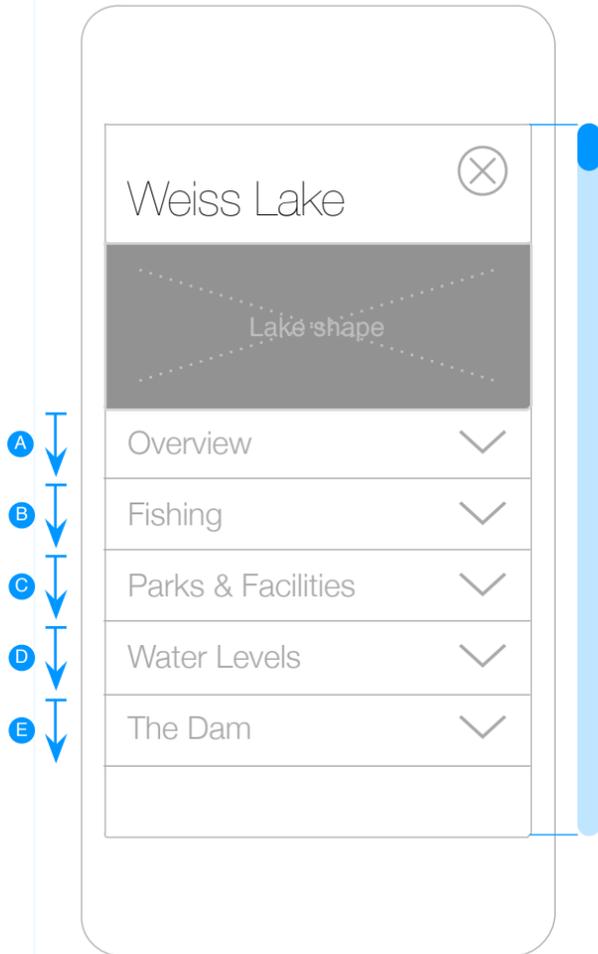
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus eleifend sagittis pretium. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Nulla lorem lectus, posuere ut convallis sed, gravida sit amet erat. In sed odio odio, vitae iaculis massa.

Historical Average

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus eleifend sagittis pretium. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Nulla lorem lectus, posuere ut convallis sed, gravida sit amet erat. In sed odio odio, vitae iaculis massa.

Transition Note:
At 45° from vertical, the water line should rotate to be level in landscape mode, then quickly slide down off the view. Animation should be reversed when moving from landscape to portrait mode.





D

Water Levels



Content here should consist of information about the operating curve of winter to summer pool and the factors which determine level as defined by the Army Corps of Engineers. Lorem ipsum dolor sit amet, consectetur adipiscing elit.



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus eleifend sagittis pretium. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos.

Lake Level Notice

Lake elevations are always subject to change, depending on conditions. Individuals that recreate below our dams and those with boats and water-related equipment on our lakes and facilities should always stay alert to changing conditions and be prepared to take the necessary steps to protect their property.

We at Alabama Power are pleased to provide you information and hope you will safely enjoy the many benefits of our lakes. Please be aware that the generation schedule and subsequent water releases from the dams are subject to change without notice.

Please understand that you alone are responsible for your safety on the lakes and rivers. Areas immediately below the dams are considered hazardous because of turbulent water conditions

Reservoir Facts:

- Elevation above sea level: 564 feet
- Area: 30,200 acres
- Shoreline: 447 miles
- Length: 52 miles
- Maximum depth at dam: 62 feet
- Area of watershed draining into reservoir: 5,273 square miles

Tell Us

Are you in favor of the Forever Wild legislation?

- Yes
- No
- Don't know



E

The Dam

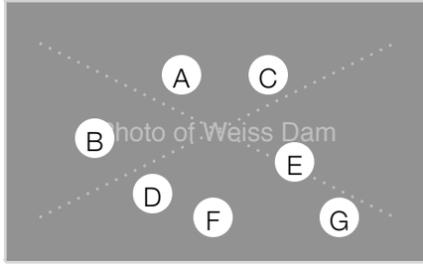


Weiss Dam was the first dam built as a part of an Alabama Power Company construction program that further developed the Coosa River in the late 1950s and the 1960s. The facility was named after F.C. Weiss, a former chief engineer of Alabama Power.

Find the Dam

Dam Facts:

- In-service date: June 5, 1961
- Capacity: 3 generators rating 29,250 kW each
- Type: Gravity concrete and earth fill
- Length of concrete: 392 feet
- Length of earth-dikes: 30,406 feet
- Maximum height: 126 feet



Hazardous Zones

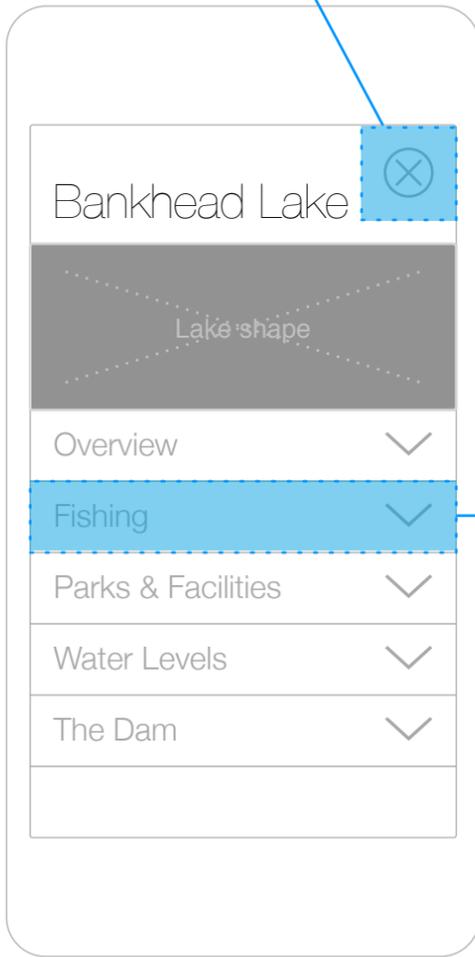
- A. Swirling water and strong underwater currents at powerhouse intakes.
- B. Strong current over or through spillway and trash gates.
- C. Turbulent discharges from automatically operated turbines.
- D. Cascading spillway discharges.
- E. Strong upstream currents in surface waters (reverse flow).
- F. Swift, turbulent waters below spillway gates.
- G. Rapidly rising waters from turbine or spillway discharge.

Tell Us

Are you in favor of the Forever Wild legislation?

- Yes
- No
- Don't know





Transition Note:
Each category should toggle expand or contract when category title is tapped

Sticky Headings

Category title should stick to underside of the Lake Name when scrolling through the category, then release when the next category is entered, allowing the next category title to stick

Area bounded in a red dotted line should use a slide transition when navigating to the map (tapping "find fishing spots")

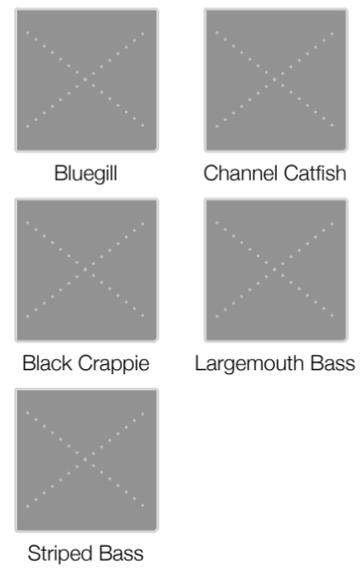
Lake title and close icon should remain constant.

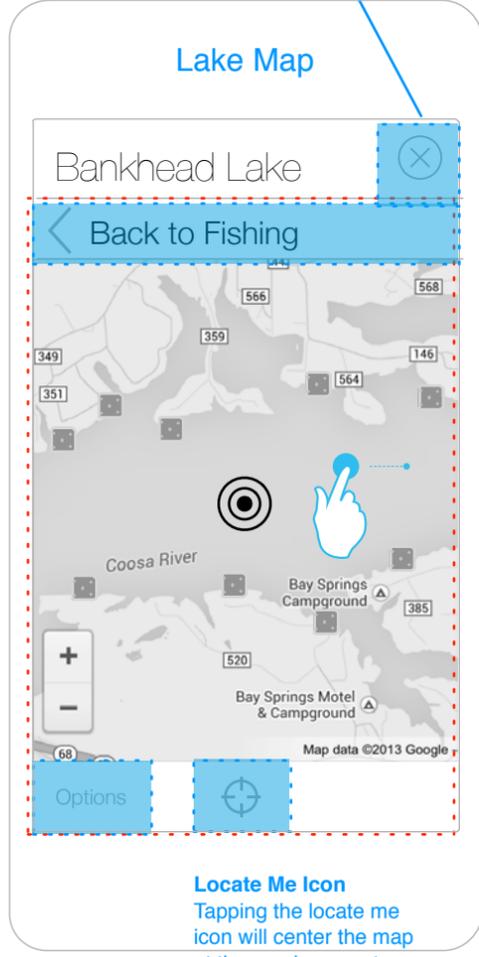
When Close icon is tapped a reverse scale transition should be used to return to the Lake Level Dashboard



Find Fishing Spots

Species at Weiss

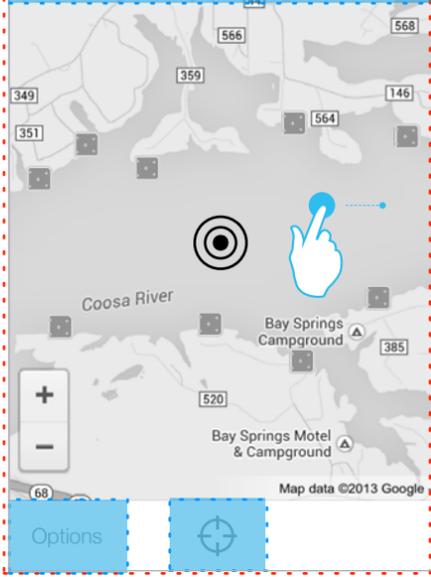




Lake Map

Bankhead Lake

Back to Fishing

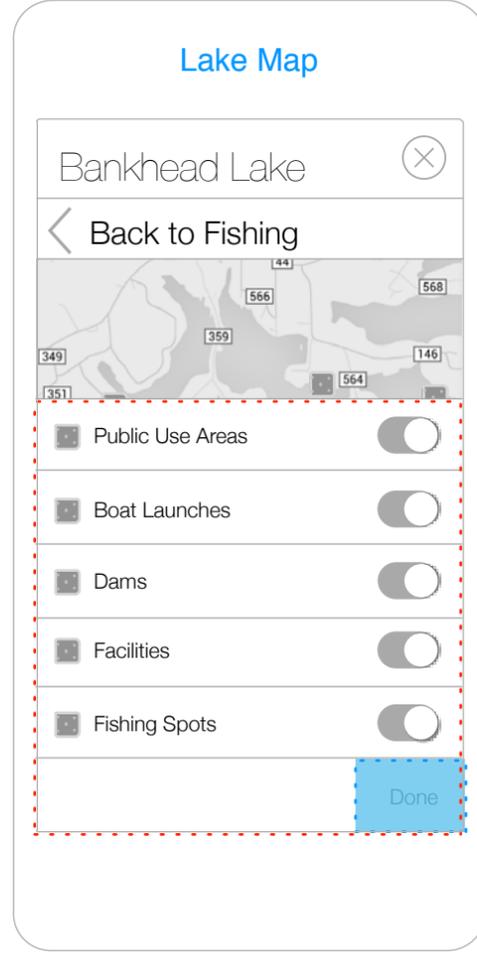


Options

Locate Me Icon
Tapping the locate me icon will center the map at the user's current location.

Area bounded in red dotted line transitions using a slide. Area outside of red dotted line does not change unless the Close icon is tapped.

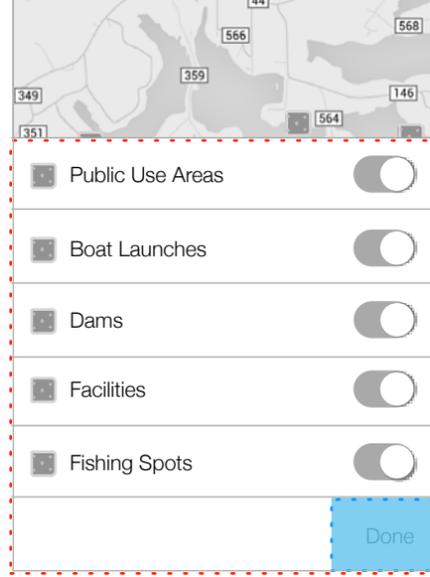
When Close button is tapped a reverse scale transition should be used to return to the Lake Level Dashboard



Lake Map

Bankhead Lake

Back to Fishing

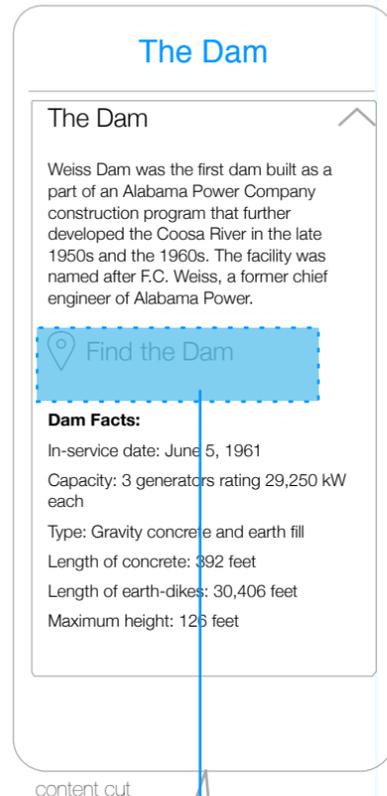
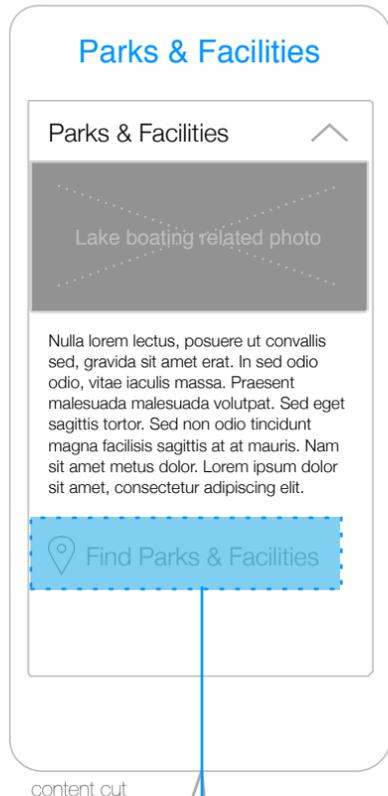
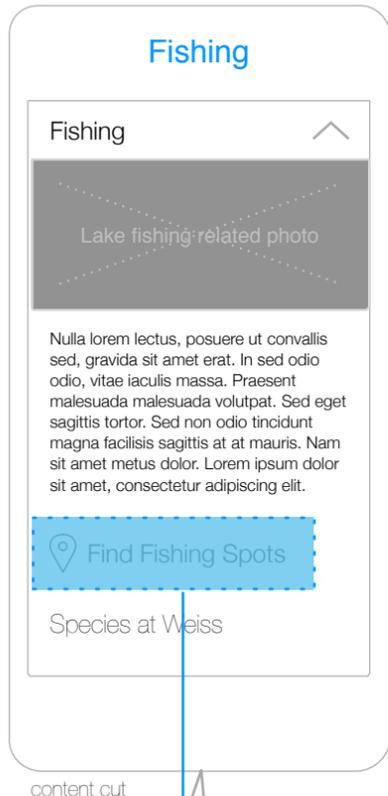


Done

Transition Note:
Options panel slides in from the bottom of screen.

When "Done" is tapped, the Options panel slides down off the view

different sections of Lake Information



Lake Map
Loads map with no options pre-selected. Map is centered at GPS center of lake. Zoom level to show entire lake in view. Tapping "Locate Me" icon centers map at user's location.

Find Fishing Spots
Loads map with fishing spots pre-selected. Map is centered at GPS center of lake. Zoom level to show all tagged fishing spots for this lake. Tapping "Locate Me" icon centers map at user's location.

Find Parks & Facilities
Loads map with public use areas, boat launches, and facilities pre-selected. Map is centered at GPS center of lake. Zoom level to show all public use areas, boat launches and facilities for this lake. Tapping "Locate Me" icon centers map at user's location.

Find the Dam
Loads map with dams pre-selected. Map is centered at dam. Zoom level to show section of lake where dam is located. Tapping "Locate Me" icon centers map at user's location.

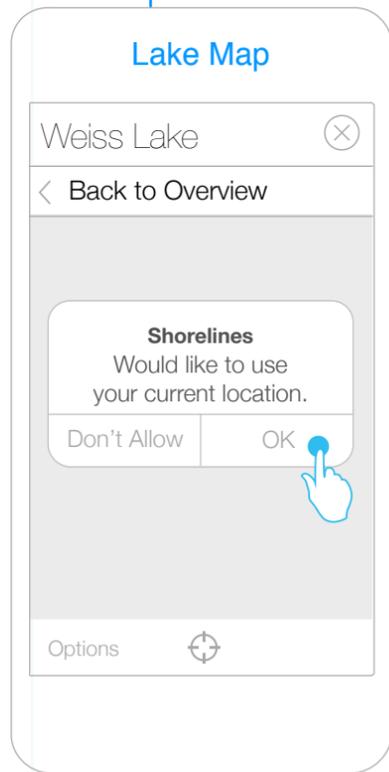


Reference Note
See spreadsheet for lake center GPS coordinates and zoom levels

Example of desired zoom level for Lake Map, Find Fishing Spots and Find Parks & Facilities



Example of desired zoom level for The Dam Map
Use zoom level 15 for Google maps or the equivalent if other maps are used.



Display permission request after "Locate Me" icon has been tapped.

		latitude	longitude	zoom
Black Warrior	Smith	34.047773	-87.024944	12
	Bankhead	33.502538	-87.282970	13
	Holt	33.309988	-87.402926	13
Coosa	Weiss	34.202658	-85.6075064	11
	Neely Henry	33.850265	-86.052104	12
	Logan Martin	33.573843	-86.213308	12
	Lay	33.116604	-86.481964	12
	Mitchell	32.847357	-86.451543	13
	Jordan	32.646828	-86.301298	13
	Walter Bouldin	32.598495	-86.286715	
Tallapoosa	Harris	33.285481	-85.611477	13
	Martin	32.761427	-85.899092	14
	Yates	32.594243	-85.892728	13
	ThurLOW	32.546813	-85.886135	14

Transition Note:

Use Reveal transition to show Our Lakes and to show Settings.

Our Lakes and Settings panels should not move, but should be uncovered by the Lake Level Dashboard sliding over.

When returning from Our Lakes or Settings, the user should be able to either tap on or grab the visible portion of the Lake Level Dashboard view so that it covers the entire panel once again.

Our Lakes

Our Lakes

Black Warrior River

- Smith
- Bankhead
- Holt

Coosa River

- Weiss
- Neely Henry

- Logan Martin
- Lay
- Mitchell
- Jordan
- Walter Bouldin

- Tallapoosa River**
- Harris
 - Martin
 - Yates
 - Thurlow

Lake Level Dashboard

Bankhead Lake

WATER LEVEL

563 ft 8in

Average Outflow: 4240 cfs

Generators: 1 NOW, 0 9PM

Transition Note:
Screens in the Settings flow should animate by sliding in from right when proceeding, or sliding in from left when backing up in the flow.

Sign In

ALABAMA POWER
A SOUTHERN COMPANY

Secure Login

Username

Password

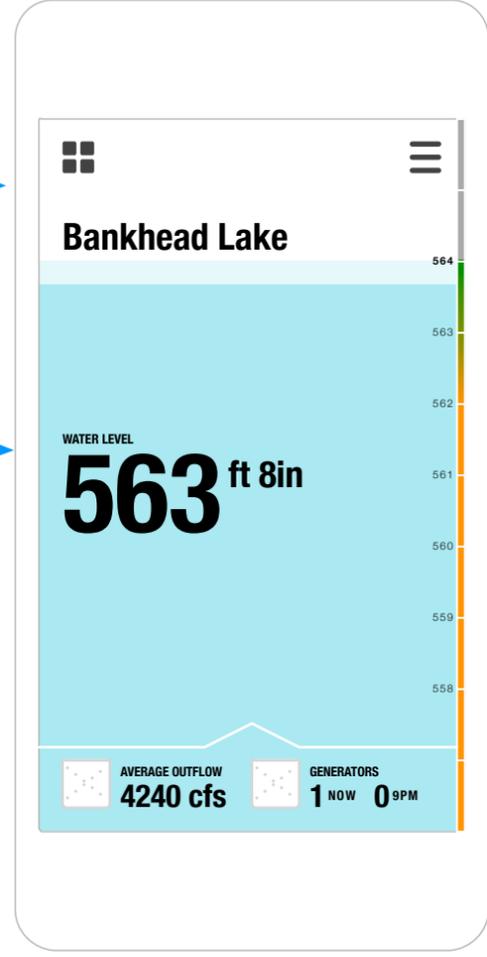
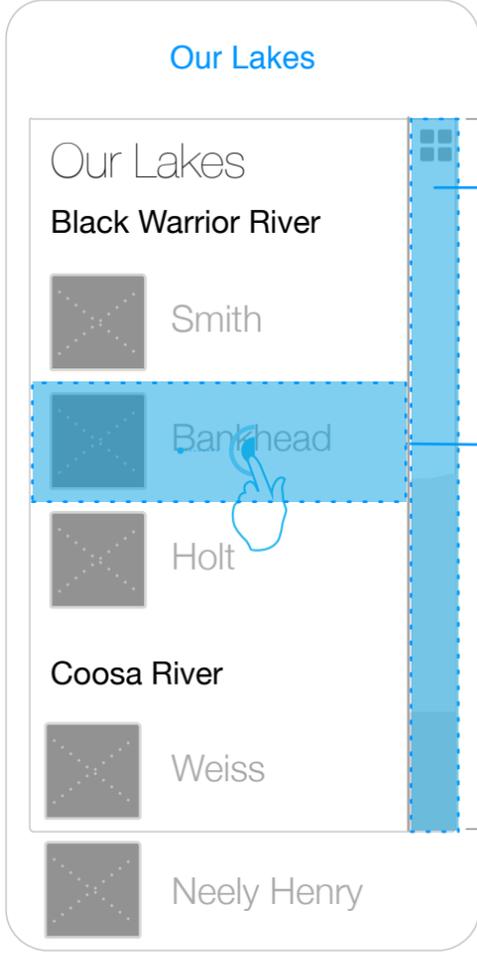
Sign In

Register at AlabamaPower.com to:

- Receive lake conditions email.
- Manage your account.
- View your power usage.
- Pay your bill online.

Get more lake information at:
Lakes.AlabamaPower.com

Follow Us:



Transition Notes

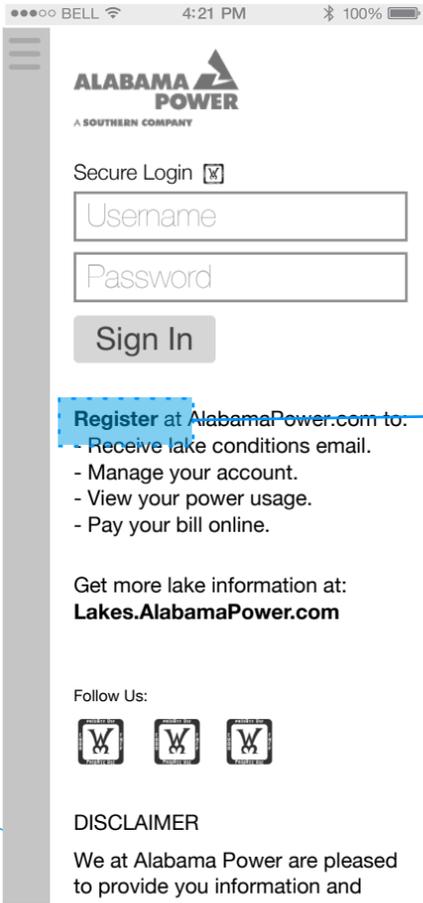
Tapping the lakes menu icon opens dashboard.

The dashboard slides to right to reveal the Lakes menu.

Selecting a lake updates the dashboard's data with the new lake. Dashboard slides left to cover the menu.

Tapping or dragging to the left the visible dashboard closes the lakes menu and the dashboard slides left.

Information / APC Sign In



Register at AlabamaPower.com to:

- Receive lake conditions email.
- Manage your account.
- View your power usage.
- Pay your bill online.

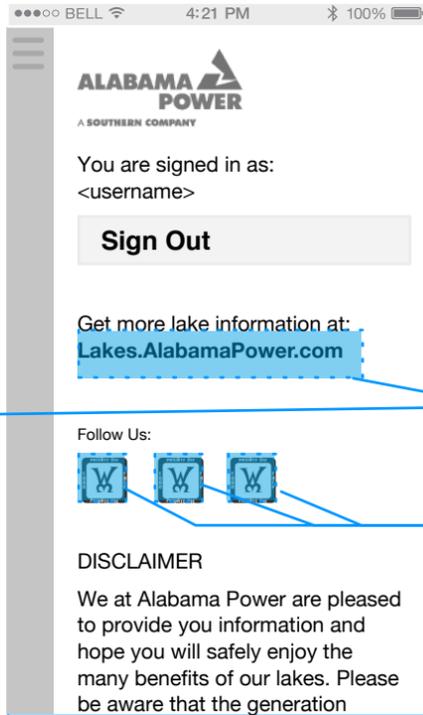
Get more lake information at:
Lakes.AlabamaPower.com



DISCLAIMER
We at Alabama Power are pleased to provide you information and hope you will safely enjoy the many benefits of our lakes. Please be aware that the generation schedule and subsequent water releases from the dams are subject to change without notice. Please understand that you alone are responsible for your safety on the lakes and rivers. Areas below the dams are considered hazardous because of turbulent water conditions.

Terms and Conditions

Information / APC Sign Out



You are signed in as:
<username>

Sign Out

Get more lake information at:
Lakes.AlabamaPower.com



DISCLAIMER
We at Alabama Power are pleased to provide you information and hope you will safely enjoy the many benefits of our lakes. Please be aware that the generation schedule and subsequent water releases from the dams are subject to change without notice. Please understand that you alone are responsible for your safety on the lakes and rivers. Areas below the dams are considered hazardous because of turbulent water conditions.

Terms and Conditions

Open web browser.

Open App OR web browser.

Open web browser.

Information / Sign In

User may sign in using their APC account. This is the same functionality as in the Setup screen.

"Register" link opens phone's browser to an APC registration form.

Lakes.AlabamaPower.com opens phone's browser to the website.

Links to APC social media pages opens the Facebook/Twitter/YouTube app OR phone's browser.

Information / Sign Out

IF a user is signed in, the sign out button is displayed.

The sign in form is hidden. The register link and copy is hidden.

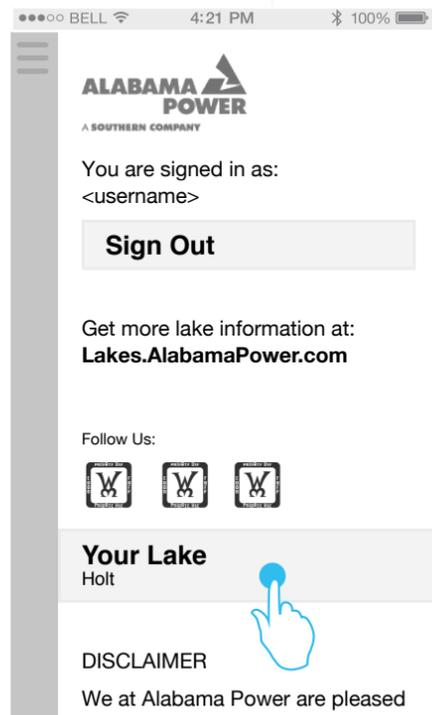
Set Your Lake

On Android devices only, display this option for opening a preference for the default lake.

The settings button shows the current lake setting in small text. Tapping the button opens the setting panel.

Use a standard Android Multiple Choice panel to display the full list of lakes.

Android Settings



You are signed in as:
<username>

Sign Out

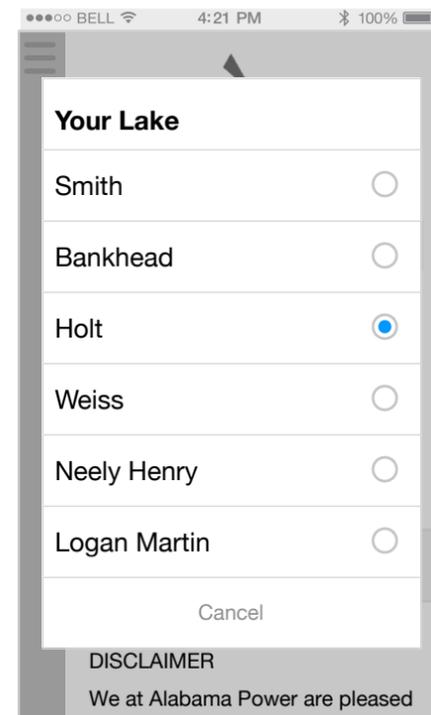
Get more lake information at:
Lakes.AlabamaPower.com



Your Lake
Holt

DISCLAIMER
We at Alabama Power are pleased

Android Settings



Your Lake

Smith

Bankhead

Holt

Weiss

Neely Henry

Logan Martin

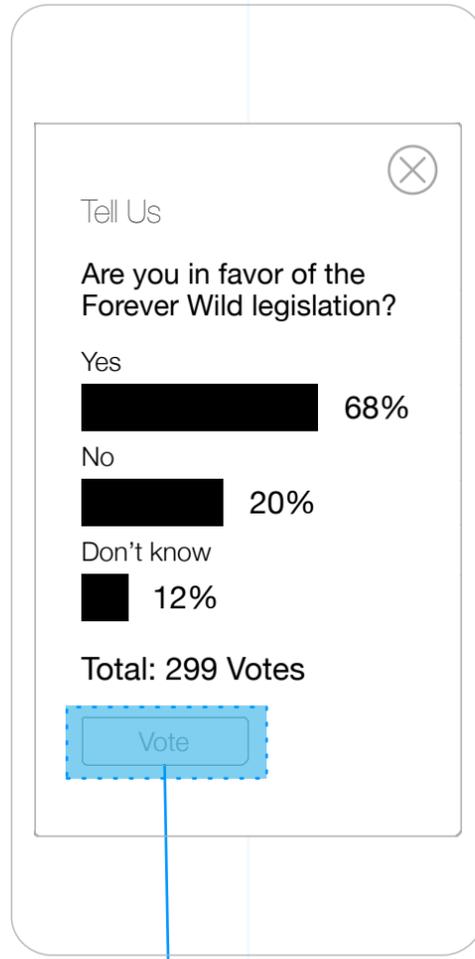
Cancel

DISCLAIMER
We at Alabama Power are pleased

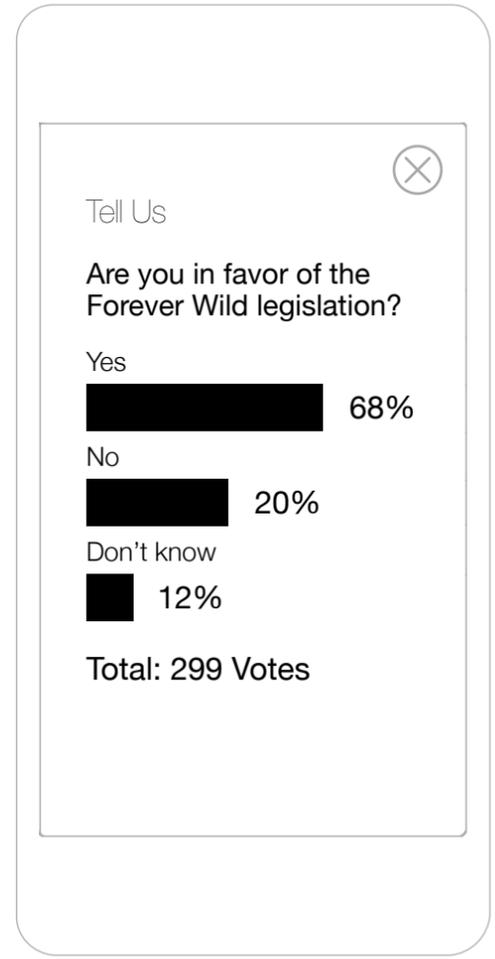
Timed intercept



The user clicked View results and has the option to go back and vote.



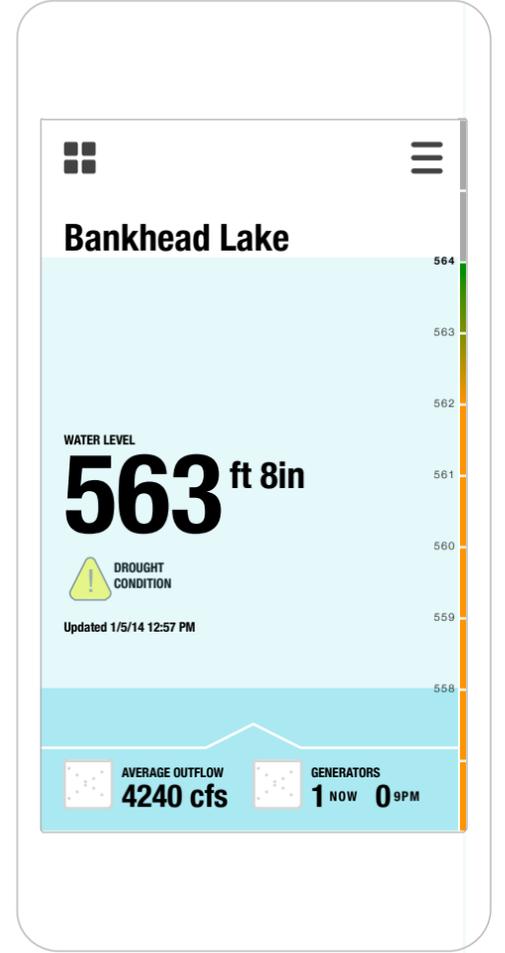
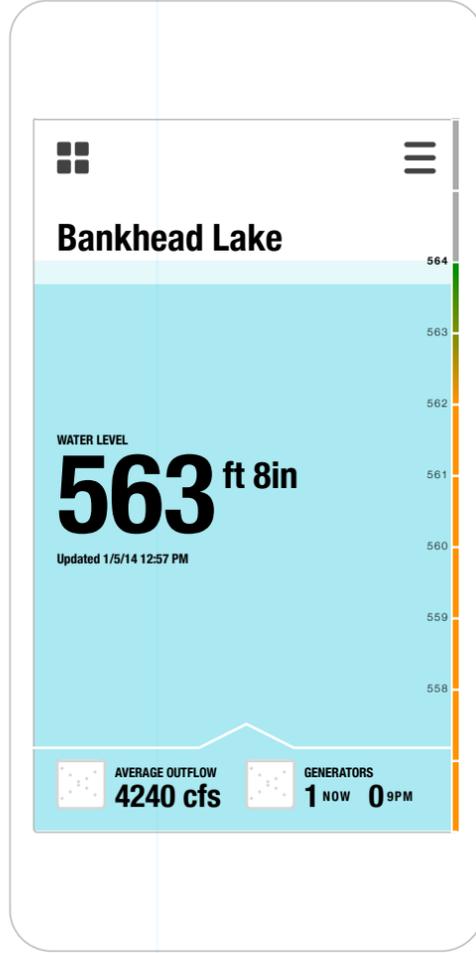
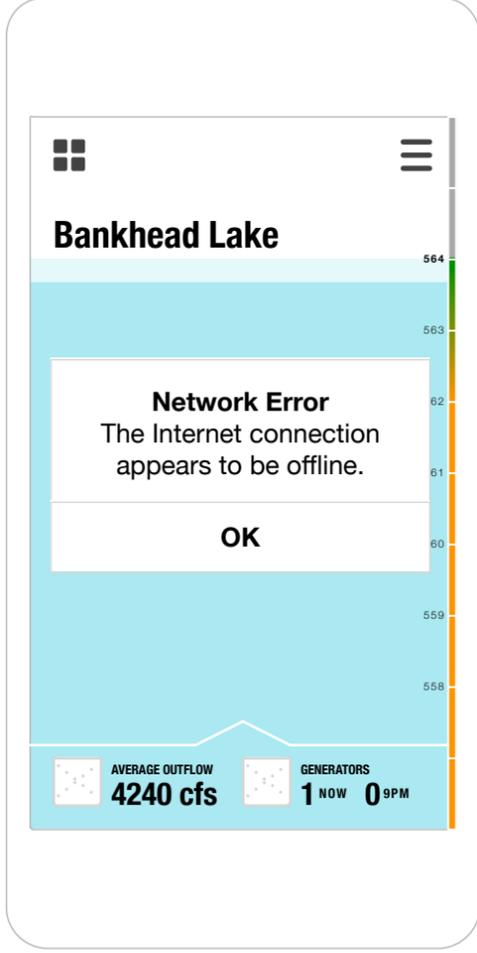
The user cast a vote.



Transition Note:

Poll should appear using scale transition, and when closed, disappear using reverse scale transition

View changes within the poll should slide.



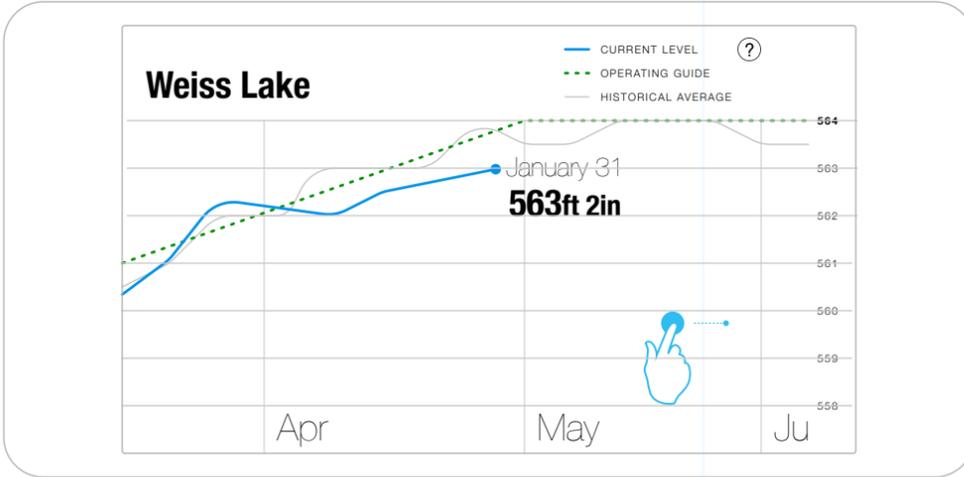
Display Updated Date & Time

IF there is no network connection, display the updated timestamp message.

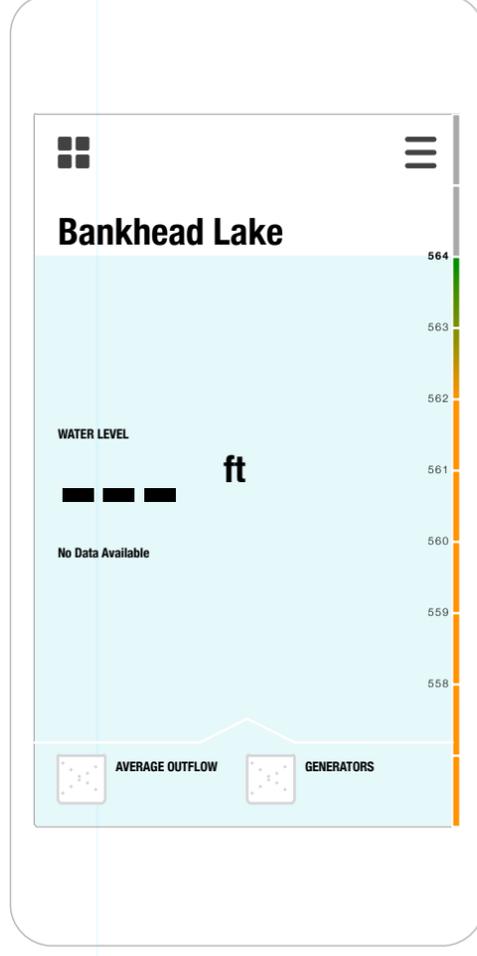
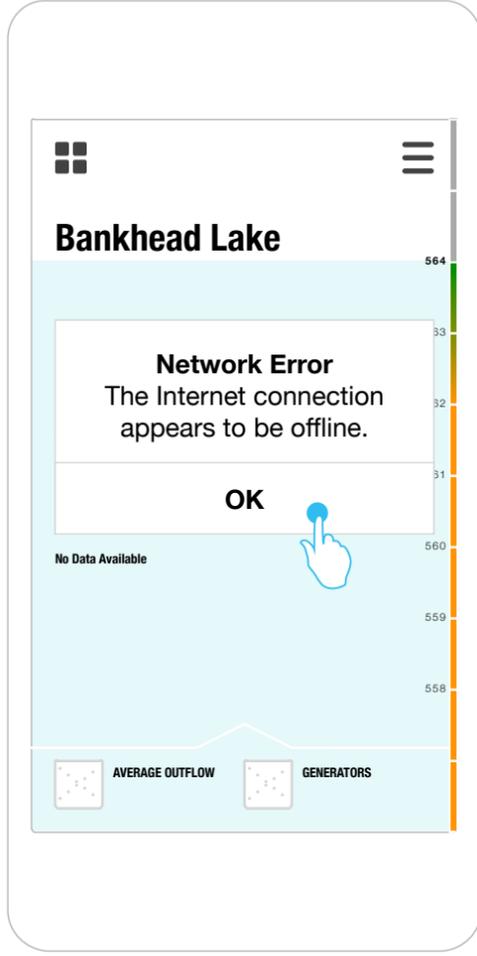
- IF < 1 minute display "Updated Just now"
- IF < 10 minutes display "Updated X minutes ago"
- IF > 10 minutes display "Updated at <time>"
- IF > 1 day display "Updated <date> <time>"

Date of Reading

IF there is no network connection, display either "Today" or the date of the reading.

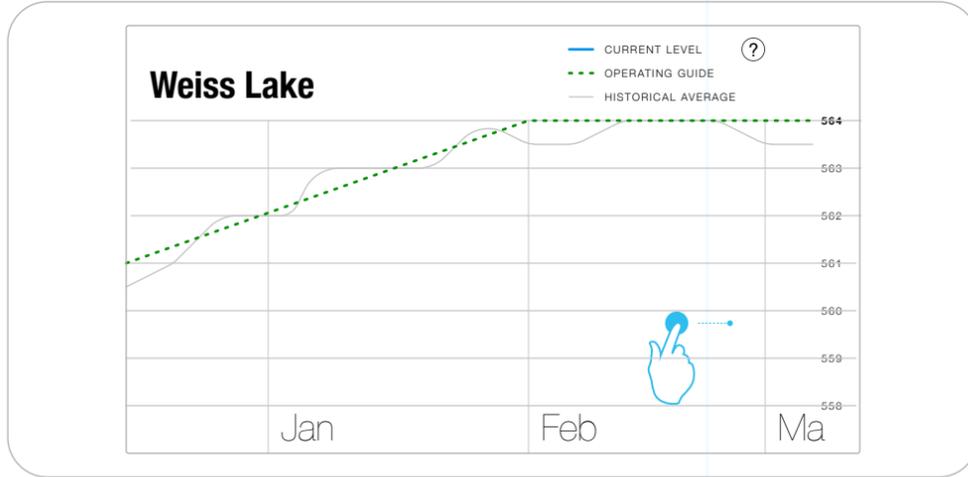


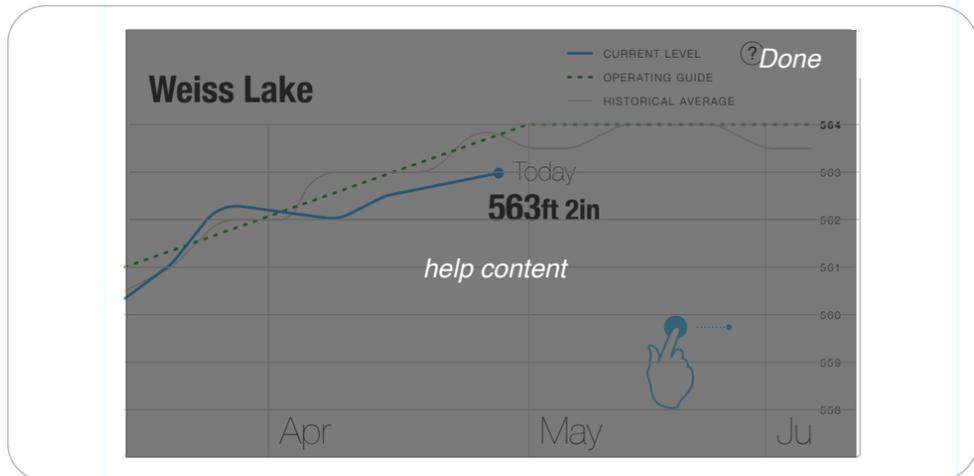
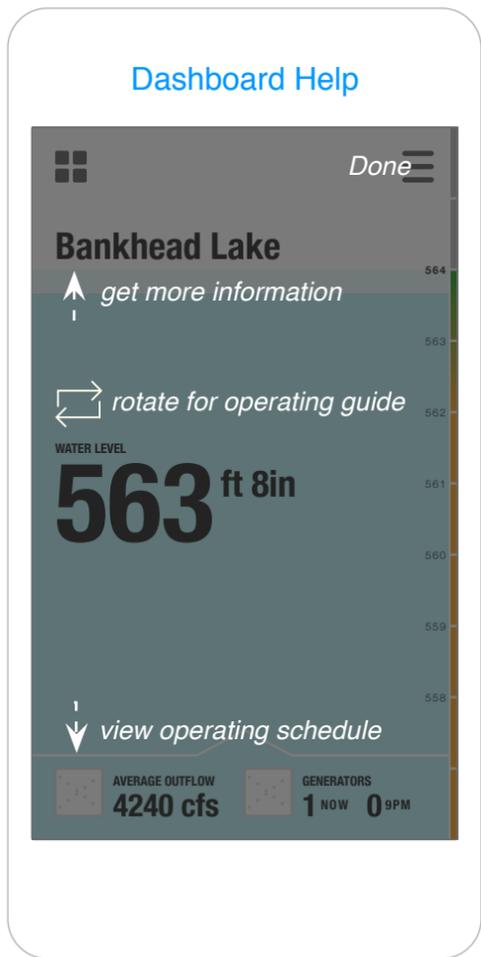
No Network Connection on First Load



No Data to Display
 all number slots replaced with a dash
 no water or water line
 update text should read: No Data Available

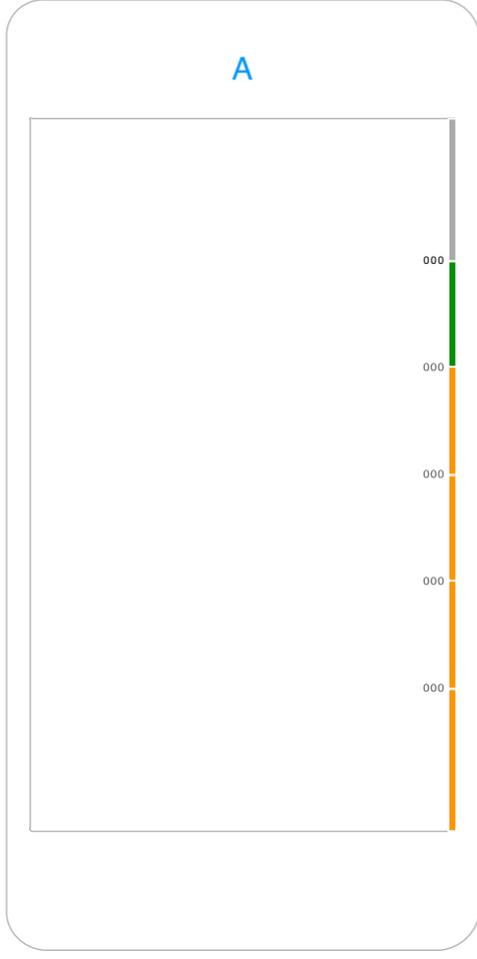
Historical Levels
 show operating guide and historical average
 do not show current level



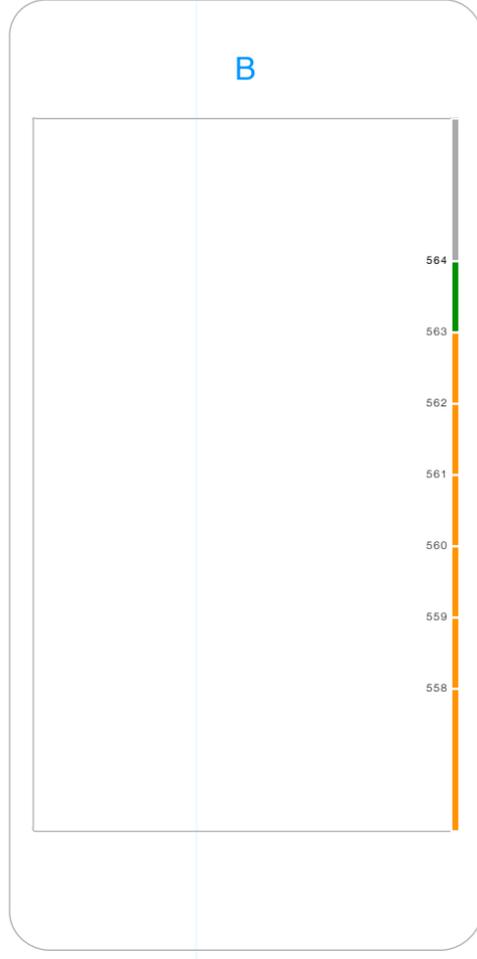


Help Overlays Display One Time
On the initial view of the screen, a help overlay panel is displayed. User may close the panel by using the close button. Panel does not display again.

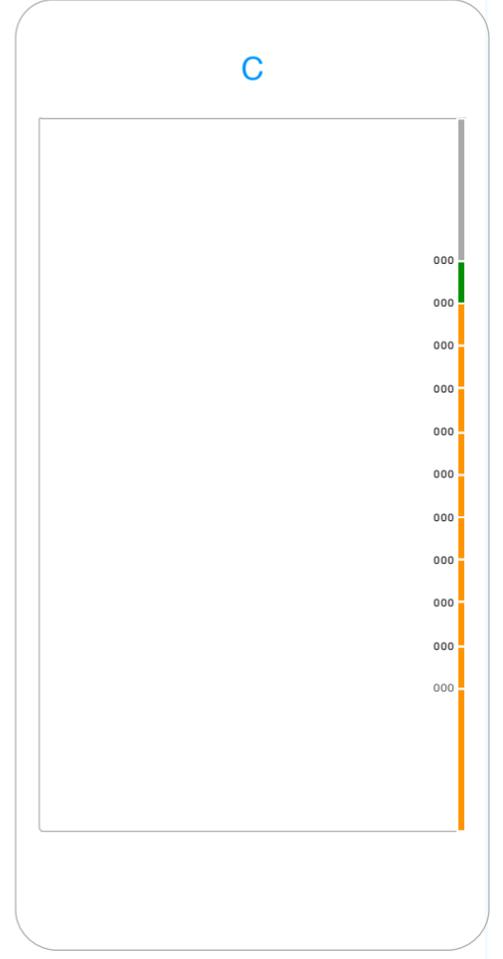
Operating Guide Gauges



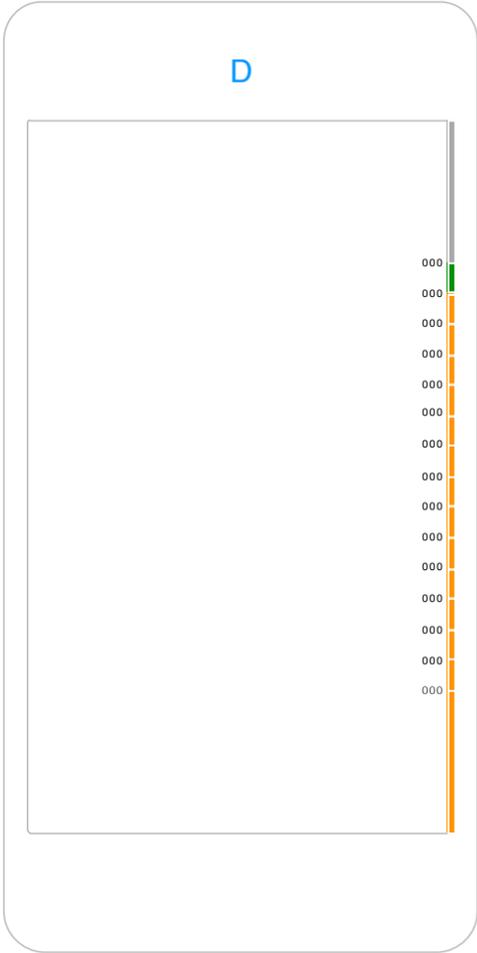
Lake	Top Elevation Shown
Neely Henry	508
Lay	396
Mitchell	312
Jordan	252
Bouldin	252
Yates	344
Thurlow	288
Bankhead	255
Holt	187



Lake	Top Elevation Shown
Weiss	564
Logan Martin	465



Lake	Top Elevation Shown
Harris	793
Martin	490



Lake	Top Elevation Shown
Smith	510



Example
Holt Lake uses gauge scale A and has a top elevation level of 187 feet. Scale A displays 5 elevation readings beginning with 187 feet at the top and goes down to 183 feet.